

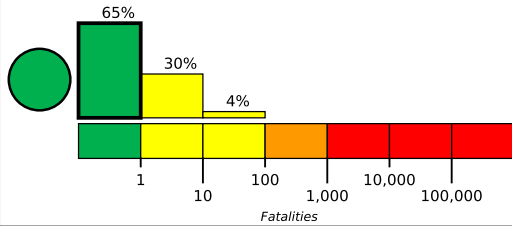
M 6.2, 49 km NE of Anamizu, Japan

Origin Time: 2023-05-05 05:42:04 UTC (Fri 14:42:04 local)

Location: 37.5476° N 137.2994° E Depth: 10.0 km

Created: 3 weeks, 5 days after earthquake

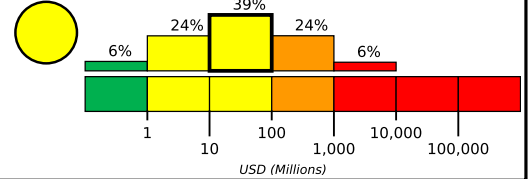
Estimated Fatalities



Yellow alert for economic losses. Some damage is possible and the impact should be relatively localized. Estimated economic losses are less than 1% of GDP of Japan. Past events with this alert level have required a local or regional level response.

Green alert for shaking-related fatalities. There is a low likelihood of casualties.

Estimated Economic Losses

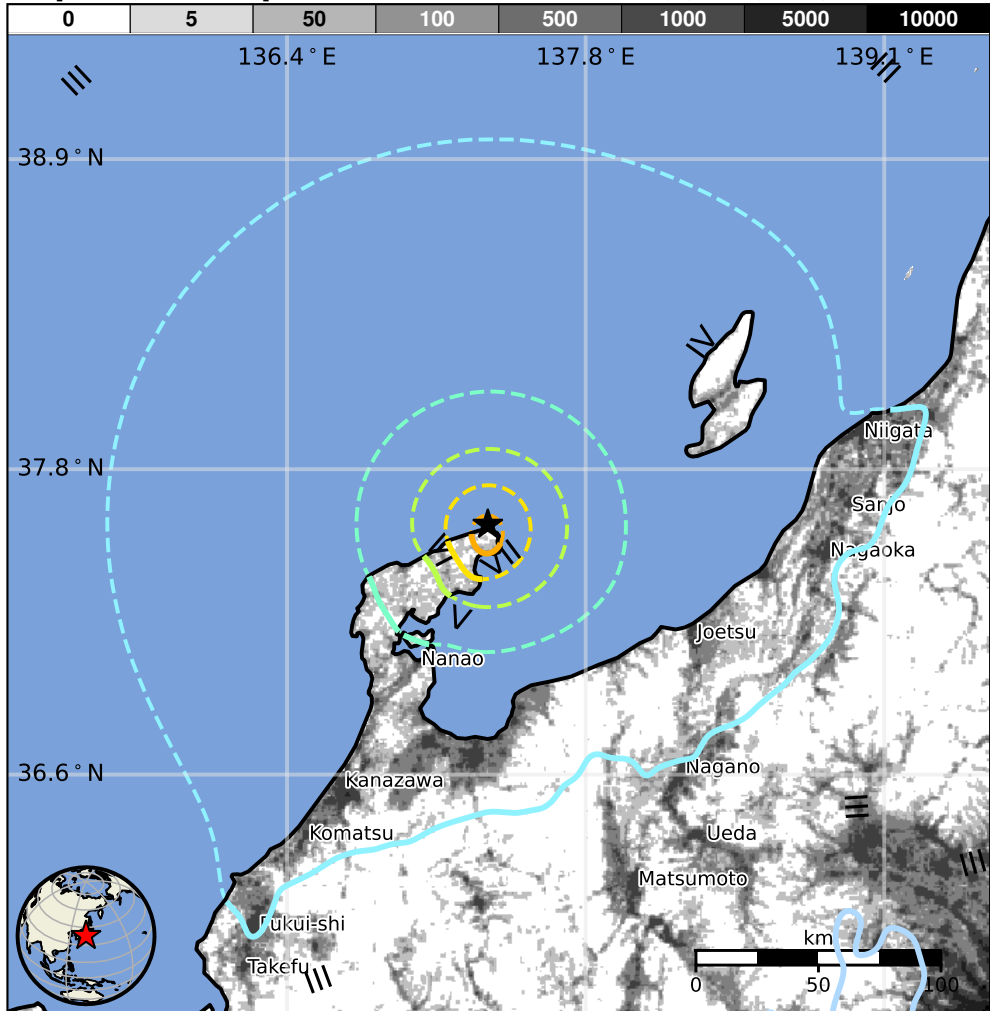


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	10,069k*	4,995k	84k	18k	8k	11k	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are heavy wood frame and reinforced/confined masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1984-09-13	194	6.2	VIII(3k)	24
2007-03-25	70	6.7	IX(32k)	1
1995-01-16	388	6.9	IX(1,740k)	6k

Recent earthquakes in this area have caused secondary hazards such as landslides, fires and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Joetsu	204k
IV	Himimachi	55k
IV	Arai	27k
IV	Nanao	45k
IV	Hakui	25k
IV	Nishishinminato	36k
IV	Kanazawa	459k
IV	Toyama	326k
IV	Niigata	505k
III	Nagano	360k
III	Maebashi	283k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us6000k9mb#pager>

bold cities appear on map.

(k = x1000)

Event ID: us6000k9mb